Ritchie County, West Virginia Print date: 03/03/2004

Table Jla. -- Physical Properties of the Soils

(Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" and "Wind erodibility index" apply only to the surface layer. Absence of an entry indicates that data were not estimated.)

Map symbol	 Depth	 Sand	 Silt	 Clay	 Moist	 Saturated	 Available	 Linear	 Organic	Erosi	on fac			Wind erodi-
and soil name	 			Clay 	bulk		water	extensi-		 Kw	 Kf			bility
	' In	Pct	Pct	Pct		um/sec		Pct	Pct	·	¦	¦	¦	'
GaB:	l						1	1	1					
Gallia	0-15					4.00-14.00			1.0-3.0	1.37	.37	5	5	56
	15-67					4.00-14.00				1.37	.49			
	67-72			2-15	1.20-1.50	42.00-141.00	10.05-0.09	0.0-2.9		.10	.15			
GaC:	 		1	 	 	! 	 	 			 			1
Gallia	0-15			10-22	1.30-1.50	4.00-14.00	0.18-0.23	0.0-2.9	1.0-3.0	1.37	.37	5	5	56
	15-67			18-35	1.20-1.60	4.00-14.00	0.12-0.18	3.0-5.9		1.37	.49			
	67-72			2-15	1.20-1.50	42.00-141.00	10.05-0.09	0.0-2.9		1.10	.15	ļ.	1	1
GlC:	 			 		 	! 	! 			 	1	1	
Gilpin	I 0-9		i	15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	i .32	.32	I 3	i	i
1	9-20			18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9	·	.24	.28	İ	İ	İ
	20-29			15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9		1.24	.32			
	29-33											ļ.	!	1
GlD:	 	 	 	 		 	 	 			 	1		
Gilpin	I 0-9		i	15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	i .32	.32	I 3	i	i
1	9-20			18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9		.24	.28	i	i	i
	20-29			15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9		.24	1.32	İ	i	İ
	29-33						ļ	ļ				İ	İ	
GlD3:	 		 	 		 	 	 			 			
Gilpin	I 0-9		·	I 15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	i .32	.32	I 3	i	i
1	9-20			18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9	·	.24	.28	İ	i	İ
	20-29			15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9		1.24	.32	1		1
	29-33											ļ	I	1
GlE:	 			 	<u> </u>	 	 	 			 	1	1	
Gilpin	I 0-9		i	15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	i .32	.32	I 3	i	i
1	I 9-20		·	18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9		.24	.28	i	i	i
	20-29	· 			1.20-1.50		0.08-0.12		·	.24	.32	i	i	İ
	29-33	i							·				1	1
GlF:					l	I	I	1	1	1			1	
Gilpin	0-9			15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	1.32	.32	3		
	9-20				1.20-1.50		0.12-0.16			.24			1	
	20-29			15-35	1.20-1.50		0.08-0.12	0.0-2.9		1.24	.32		1	
	29-33													

Table Jla.--Physical Properties of the Soils--Continued

Map symbol	 Depth	 Sand	 Silt	 Clay	 Moist		 Available		 Organic	l	on fac		erodi-	Wind erodi-
and soil name	 	 	 	 		hydraulic conductivity 	water capacity		•	•			bility group 	bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct	¦		ļ ——		<u> </u>
GuE: Gilpin	l l 0-9			 15 - 27	 1 20 – 1 40	 4.00-14.00	10 12-0 18	 0 0=2 9	1 0.5-4.0	1 .32	 .32	1 3 		
GIIPIII	1 9-20		l				10.12-0.16		1	1 .24	1 .28	1 2	 	
	1 20-29		l			4.00-14.00				1 .24	1 .32	 	! 	I I
	29-33												İ	i
Upshur	 0-6			 27-35	 1.20-1.50	 1.40-4.00	10.12-0.16	 3.0-5.9	1 0.5-3.0	1 .37	 .37	 3	 7	l l 38
openar	6-41				11.30-1.60		10.10-0.14			1 .32	1.32	1	, , 	1
	1 41-56						10.08-0.12			1 .32	1.32	İ	i I	i i
	56-60												į	į
Other soils	 			 	 	 		 				 		
GuE3:	 			 		 		 			 	 	 	
Gilpin	0-9			15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3		
•	9-20			18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9		.24	.28	İ	İ	İ
	20-29			15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9		1.24	.32			
	29-33												I	Į.
Upshur	I I 0-6			40-50	 1.30-1.50	 1.40-4.00	0.12-0.16	6.0-8.9	0.5-2.0	.32	.32	1 2	4	86
-	6-41			40-55	1.30-1.60	0.42-1.40	0.10-0.14	6.0-8.9		1.32	.32			
	41-56			27-45	1.30-1.60	0.42-1.40	0.08-0.12	3.0-5.9		1.32	.32			
	56-60													
Other soils				 	 	 		 						
GuF:]	 	 	 		 			 	 	 	1
Gilpin	0-9			15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	1.32	.32	3		
	9-20				1.20-1.50		0.12-0.16			.24	.28			
	20-29			15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9		.24	.32			
	29-33				 									
Other soils														
Upshur	I I 0-6			 27-35	 1.20 - 1.50	1.40-4.00	0.12-0.16	3.0-5.9	0.5-3.0	1 .37	1 .37	 3	 7	38
_	6-41			40-55	1.30-1.60	0.42-1.40	0.10-0.14	6.0-8.9		1.32	.32			
	41-56			27-45	1.30-1.60	0.42-1.40	0.08-0.12	3.0-5.9		1.32	.32			
	56-60												1	
GuF3:	 		 	 	 	 		 	 		 	 	 	
Gilpin	0-9			15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	1.32	.32	3		
	9-20			18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9		1.24	.28			
	20-29			15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9		1.24	.32			
	29-33													

Table Jla.--Physical Properties of the Soils--Continued

Map symbol	 Depth	 Sand	 Silt	 Clay	 Moist		 Available		 Organic	i	on fac		erodi-	
and soil name	 	 		 -		hydraulic conductivity 	water capacity 			 Kw	 Kf		bility group 	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct	¦		¦	¦	¦
Upshur	0-6 6-41 41-56	 	 	40-55	1.30-1.60	0.42-1.40	 0.12-0.16 0.10-0.14 0.08-0.12	6.0-8.9	0.5-3.0	 .37 .32 .32	 .37 .32 .32	 3 	 7 	 38
	56-60												İ	
GvF:		1											1	
Gilpin	0-9 9-20 20-29 29-33	 		18-35	1.20-1.50	4.00-14.00 4.00-14.00 4.00-14.00 	0.12-0.16	0.0-2.9	 	.24 .24 .24 	.32 .28 .32 	3	 	
Other soils		 		 	 	 		 						
Upshur	0-6 6-41 41-56 56-60	 		40-55	1.30-1.60	0.42-1.40	 0.12-0.16 0.10-0.14 0.08-0.12 	6.0-8.9	 	 .32 .32 .32 	.37 .32 .32 	 3 	 	
HaA: Hackers	 0-15 15-49 49-60	 	 	18-35	1.30-1.50	4.00-14.00 4.00-14.00 4.00-14.00	0.12-0.18	3.0-5.9	 2.0-4.0 	 .32 .37 .28	 .32 .37 .28	 4 1	 5 	 56
Melvin				 	 	 		 				 		
HaB: Hackers	 0-15 15-49 49-60	 	 	18-35	1.30-1.50	4.00-14.00 4.00-14.00 4.00-14.00	0.12-0.18	3.0-5.9		 .32 .37 .28	 .32 .37 .28	 4 4	 5 	 56
Me: Melvin	 0-6 6-60	 	 	•	•	 4.00-14.00 4.00-14.00	•		 0.5-3.0 	.43	.43	 5 	 	 56
MnB: Monongahela	 0-8 8-24 24-48 48-60	 	i i	18-35 18-35	1.30-1.50 1.30-1.60	4.00-14.00 4.00-14.00 0.42-4.00 1.40-4.00	0.14-0.18	0.0-2.9	•	.43 .43 .43 .37	.49		 5 	 56

Table Jla.--Physical Properties of the Soils--Continued

Map symbol	 Depth	 Sand	 Silt	 Clay	 Moist	 Saturated			 Organic	·			erodi	Wind erodi
and soil name						hydraulic								
					density	conductivity	capacity	bility	1	Kw	Kf	T	group	index
	l <u> </u>	 Pct		l l Pct		 um/sec	In/in	 Pct	Pct	·	<u> </u>	<u> </u>	<u> </u>	·¦
	111	1	1	1	9/00 	4111/366	111/111	100	1	1	 	 	! 	1
Tilsit	0-10			10-25	1.20-1.55	4.00-14.00	0.16-0.22	0.0-2.9	1.0-3.0	.43	.43	3	5	56
	10-22			18-35	1.30-1.55	4.00-14.00	0.16-0.22	0.0-2.9		1.43	.43			
	22-41			18-35	1.40-1.65	0.42-1.40	0.08-0.12	0.0-2.9		1.43	.43		1	1
	41-46			10-50	1.40-1.60	0.42-4.00	0.08-0.12	0.0-2.9		.43	.43	İ	İ	İ
İ	46-50						i		·			İ	İ	İ
Other soils	 			 	 	 		 				 		
Robertsville	 	 		 	 	 		 	 		 	 	 	
İ		ĺ					ĺ			İ	ĺ	İ	ĺ	İ
MnC:					l		1							
Monongahela							0.18-0.24		2.0-4.0	1.43	1.43	3	5	56
	8-24						0.14-0.18			1.43	.43			
	24-48						0.08-0.12			1.43				
	48-60			10-35	1.20-1.40	1.40-4.00	0.08-0.12	0.0-2.9		.37	.43		1	1
Tilsit	 0_10	 		 10 - 25	 1 20 - 1 55	 4.00-14.00	10 16-0 22	 0 0=2 9	1 1 0-3 0	1 .43	 . 43	I I 3	l I 5	l l 56
	1 10-22	 	 		•	4.00-14.00	•		1.0 3.0	1 .43	1 .43	1	1 5	1 30
	1 22-41	l					10.18-0.22			1 .43	1 .43	l I	 	1
	1 41-46	l	 		•	•	10.08-0.12			1 .43		l I	 	1
	1 46-50			1 10-30	1 1 1 4 0 - 1 1 0 0	0.42-4.00	10.00-0.12	0.0-2.9		1 .43	1 .43	1	1	1
	40-30 	 	 	 	 					1	 	l I	 	1
Other soils				 	 	 								
MnC3:	 	 		 	! 	 	! 				 	 	 	
Monongahela	0-8			10-27	1.20-1.40	4.00-14.00	0.18-0.24	0.0-2.9	2.0-4.0	.43	.43	I 3	I 5	I 56
	8-24			18-35	1.30-1.50	4.00-14.00	0.14-0.18	0.0-2.9		.43	.43	İ	İ	İ
	24-48			18-35	1.30-1.60	0.42-4.00	0.08-0.12	0.0-2.9		.43	.49	İ	İ	İ
İ	48-60			10-35	1.20-1.40	1.40-4.00	0.08-0.12	0.0-2.9		.37	.43		Ī	Ì
		I												
Tilsit						4.00-14.00			1.0-3.0	1 .43	.43	3	5	56
	10-22				•	4.00-14.00				1.43	.43			
	22-41						0.08-0.12			1.43	.43			
	41-46			10-50			0.08-0.12	0.0-2.9		1.43	.43			
	46-50													
Other soils														
Mo:	<u> </u> 	I I] 	 	 	[I 	<u> </u> 		1	! 	I I	I I	1
Moshannon	ı I 0-9			15-27	11.20-1.50	4.00-14.00	10.20-0.24	0.0-2.9	1.0-3.0	1.37	.37	1 5	1 6	1 48
	9-41				11.20-1.50		10.18-0.22			1.37	1.37		1	1
	1 41-60					4.00-14.00				1	1 .43	1	! 	İ
Melvin		· 						0.0 2.5	•	1 . 5 /	1 . 10	1	1	1

Table Jla.--Physical Properties of the Soils--Continued

Map symbol	Depth	 Sand	 Silt	 Clay	 Moist		 Available	•	 Organic	Erosi	on fac		_ erodi-	
and soil name	 - -	 	 	 		hydraulic conductivity 	water capacity 				 Kf 		bility group 	
	In	Pct	Pct	Pct	g/cc	um/sec	 In/in	Pct	Pct	<u> </u>	<u> </u>	<u> </u>	i	
Se:	0-10	 		1 1 5 0 7 1	1 00 1 40	 4.00-14.00			1 2.0-4.0	1 .32	1 . 32		l I 5	I I 56
Senecaville	10-10					1.40-14.00			2.0-4.0	1 .32	1.32	5	5	56
	-	1					•		1					
	41-60			18-35 	1.20-1.40	4.00-14.00	0.12 - 0.18	0.0-2.9 		1 .28	1 .28	 	 	
Melvin				 		 	 	 		i				
Sn:											İ			İ
Sensabaugh	0-7			8-25	1.25-1.40	4.00-42.00	0.12-0.18	0.0-2.9	1.0-3.0	1.24	.24	5		
	7-22				1.30-1.50		0.10-0.16			1.20	.24			
	22-26			12-35	1.30-1.50	4.00-42.00	0.10-0.15	0.0-2.9		.17	.24			
	26-60			12-38	1.25-1.50	4.00-42.00	0.08-0.14	0.0-2.9		1.17	.20			ļ.
Melvin						 	 	 						
Ua:] [1	 	 	 	
Udorthents				 						i				
UbB:			 	 		 	 	 			ļ 			
Upshur	0-6			27-35	1.20-1.50	1.40-4.00	0.12-0.16	3.0-5.9	0.5-3.0	.37	.37	3	7	38
_	6-41			40-55	1.30-1.60	0.42-1.40	0.10-0.14	6.0-8.9		1.32	.32			
	41-56			27-45	1.30-1.60	0.42-1.40	0.08-0.12	3.0-5.9		1.32	.32			
<u> </u>	56-60											1	I	Į.
UbC:		 	 	 		 	 	 				1	 	
Upshur	0-6			l 27-351	1.20-1.50	1.40-4.00	0.12-0.16	1 3.0-5.9	0.5-3.0	.37	.37	1 3	I 7	38
opoliai	6-41				1.30-1.60		0.10-0.14			1.32	1.32			1
	41-56			27-45	1.30-1.60		10.08-0.12	3.0-5.9	i	1.32	1.32	i		i
	56-60								i			i	İ	i İ
		ĺ	i i	İ			l			Ì	Ì	ĺ	ĺ	ĺ
UbD:							l	l	1					
Upshur	0-6						0.12-0.16		0.5-3.0	.37	.37	3	7	38
	6-41					•	0.10-0.14	•		.32	.32			
	41-56			27-45	1.30-1.60	0.42-1.40	0.08-0.12	3.0-5.9		1.32	.32			
	56-60													
UcC3:	 	 	 	 		[! 	! 			 	 	 	!
Upshur	0-6			40-50	1.30-1.50	1.40-4.00	0.12-0.16	6.0-8.9	0.5-2.0	.32	.32	2	4	86
-	6-41					•	0.10-0.14	•		1.32	.32	Ì		İ
	41-56						0.08-0.12			1.32		İ	I	i
	56-60	· 	·						i			Ì	I	i I

Table Jla.--Physical Properties of the Soils--Continued

Map symbol	 Depth	 Sand	 Silt	 Clay	 Moist		 Available		 Organic				erodi-	
and soil name	 	 		 	bulk density	hydraulic conductivity 	water capacity		•	•			bility group 	bility index
	 In	Pct	Pct	Pct		um/sec		Pct	Pct	·		¦		¦
UcD3:		Į.												
Upshur	0-6 6-41						0.12-0.16		0.5-2.0	1 .32	1.32	2	4	86
	6-41 41-56						0.10-0.14 0.08-0.12			1.32	1.32			
	41-56			27-45		0.42-1.40		3.0-5.9		.32	.32			
UqB:	 	 		 	 	 -	 	 	 		 	 	 	
Upshur	0-6	· 		27-35	1.20-1.50	1.40-4.00	0.12-0.16	3.0-5.9	0.5-3.0	.37	.37	3	7	38
-	6-41			40-55	1.30-1.60	0.42-1.40	0.10-0.14	6.0-8.9		1.32	.32			
	41-56			27-45	1.30-1.60	0.42-1.40	0.08-0.12	3.0-5.9		1.32	.32			
	56-60 	 		 	 		 	 				 		
Gilpin	 0-9		į		 1 20 1 40	 4.00-14.00	 0.12-0.18	 0.0-2.9	 0.5-4.0	i I .32	 . 32		İ	į
GIIPIII	1 9-20				11.20-1.40		10.12-0.16		1 0.3-4.0	1 .24	1 .28	1 2		
	1 20-29		 				10.08-0.12			1 .24	1 .32	1]]	1
	29-33													
Other soils		 		 	 	 		 						
UqC:	 	 		 	 			 	 		 	1	 	
Upshur	0-6			27-35	1.20-1.50	1.40-4.00	0.12-0.16	3.0-5.9	0.5-3.0	1.37	.37	3	7	38
	6-41			40-55	1.30-1.60	0.42-1.40	0.10-0.14	6.0-8.9		1.32	.32			
	41-56			27-45	1.30-1.60	0.42-1.40	0.08-0.12	3.0-5.9		1.32	.32			
	56-60 			 	 			 					 	
Gilpin	0-9					4.00-14.00			0.5-4.0	.32	.32	3	i	i
	9-20				1.20-1.50		0.12-0.16			1.24	.28			
	20-29			15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9		.24	.32	!		
	29-33 	 	 	 	 			 	 					1
Other soils												ļ		·
UgC3:		 		 	 	 		 	 				 	1
Uphsur	0-6			40-50	1.30-1.50		0.12-0.16		0.5-2.0	1.32	.32	2	4	86
	6-41				1.30-1.60		0.10-0.14			1.32	.32			
	41-56			27-45	1.30-1.60	0.42-1.40	0.08-0.12	3.0-5.9		1.32	.32			
	56-60 	 			 	 						 		
Gilpin				15-27	1.20-1.40		0.12-0.18		0.5-4.0	.32	.32	3	i	i
	9-20				11.20-1.50		0.12-0.16			1.24	.28			
	20-29			15-35	1.20-1.50		0.08-0.12	0.0-2.9	'	.24	.32	!		1
	1 29-33				I	l			l	1	1	1	1	1

Table Jla.--Physical Properties of the Soils--Continued

Map symbol	 Depth	 Sand	 Silt	 Clay	 Moist	 Saturated	 Available	 Linear	 Organic	Erosion factors				Wind erodi-
and soil name	 	 	 	- 		hydraulic conductivity 	•	•	•				bility group 	
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct	'i		i —	 	i
UqD:				 	 	 	1	 	 	1			 	
Upshur	0-6			27-35	1.20-1.50	1.40-4.00	0.12-0.16	 3.0-5.9	0.5-3.0	1.37	.37	3	, , 7	38
•	6-41	·		40-55	1.30-1.60	0.42-1.40	0.10-0.14	6.0-8.9		1.32	.32	İ		
	41-56			27-45	1.30-1.60		0.08-0.12			1.32			l	
	56-60													
Gilpin	I I 0-9			l l 15-27	l l1.20-1.40	 4.00-14.00	I I0.12-0.18	l l 0.0-2.9	l 0.5-4.0	1 .32	I I .32	I I 3	 	
	9-20	· 				4.00-14.00				.24	.28			
	20-29			15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9		.24	.32			
	29-33													I
UgD3:			 	 	 	 	 	 	 		 	 		
Upshur	0-6			1 40-50	11.30-1.50	1.40-4.00	0.12-0.16	l 6.0-8.9	0.5-2.0	1.32	.32	1 2	1 4	I 86
-	6-41			40-55	1.30-1.60	0.42-1.40	0.10-0.14	6.0-8.9		.32	.32	İ		
	41-56			27-45	1.30-1.60	0.42-1.40	0.08-0.12	3.0-5.9		1.32	.32			
	56-60											!		I
Gilpin	I I 0-9			l l 15-27	l l1 20-1 40	 4.00-14.00	 0 12=0 18	l l 0 0-2 9	l l 0 5-4 0	1 .32	 .32	 3	 	
CIIpIII	9-20	i				4.00-14.00	•	•		1.24			' 	
	20-29	·	·	15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9		.24	.32	İ		İ
	29-33													
VaC:				 				 	 					
Vandalia	1 0-6			1 20-27	ı I 1 . 20-1 . 50	1.40-14.00	10.12-0.18	ı I 3.0-5.9	1.0-3.0	1 .37	ı I .37	I 4	ı I 6	ı I 48
Variatio	6-50	i					0.12-0.15			1.32	.32	-		
	50-72			27-50	1.30-1.60	0.42-4.00	0.08-0.12	6.0-8.9		1.32	.32	İ		ĺ
VaD:				 		 		 						
Vandalia	I 0-6			l 20-27	ı I 1 . 20-1 . 50	1.40-14.00	I 0 . 12=0 . 18	ı I 3.0-5.9	1.0-3.0	1 .37	1 .37	1 1 4	ı I 6	I 48
	6-50	· 					0.12-0.15			1.32	.32	i -		
	50-72			27-50	1.30-1.60	0.42-4.00	0.08-0.12	6.0-8.9		1.32	.32	İ		ĺ
VdC3:														
Vandalia	I 0-6		l 	l l 27–35	I I1 20-1 50	 1.40-14.00	I IN 12-N 18	I I 3 N-5 9	1.0-3.0	1 .37	ı I .37	I I Д	I I 6	I 48
Vandalla	l 6-50					•	10.12-0.15	•	1.0 5.0	1.32	1.32	-		1
	50-72	i	·				0.08-0.12			1.32		İ		i İ
	l	1	1	<u> </u>	<u> </u>	<u> </u>	1	<u> </u>		1	I			I
VdD3: Vandalia	l l 0-6			 27 – 35	 1 20 - 1 50	 1.40-14.00	10 12-0 10	 3 0-5 0	1.0-3.0	1 .37	 37	 1	l 1 6	l I 48
vanuarra	1 6-50					•	10.12-0.18	•		1.37	1.32	4 	ı ^U	1 40 1
	50-72	· 					0.08-0.12	•	•	1.32			! 	
ZZ900:	l	İ	İ							İ	İ	İ		l
Water														